

Automated wide area surveillance for oil & gas facilities



Petroleum and natural gas make up almost two thirds of the energy consumed around the world and require a vast and complex infrastructure for production, storage, and delivery. Securing these facilities is challenging because it is almost impossible to protect the entire manufacturing and distribution process from illegal activity. Any disruption, whether it is from natural causes or deliberate attempts to cause damage or theft, costs industries millions of dollars every year, not to mention the potential cost to human lives or the environment.

■ Unique, real-time video surveillance solution from Siemens

Our automated wide area surveillance solution provides immediate situational awareness in any environment. We combine video inputs from any number of cameras with other sensor data (e.g. access control, fiber fence/pipeline sensors, fire alarms, etc.) and display it on a single screen.

In case of an incident, Siveillance™ SitelQ displays the exact location of the potential problem on your customized 2D or 3D site map. Siveillance SitelQ automatically identifies and displays in a pop up screen the PTZ camera closest to the incident, which tracks

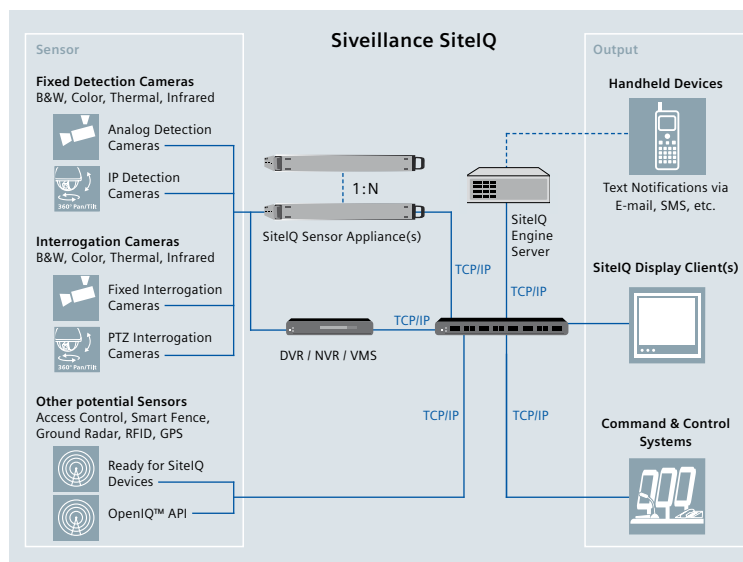
the object in question, therefore allowing quick decision making and incident prevention or resolution. Our software runs on industry standard hardware and can be modified to accommodate varied and changing requirements.

■ Increase security, reduce manpower costs

Siveillance SitelQ conveys a complete view of your environment on a single display, pinpointing the exact coordinates of security incidents. Our solution reduces your total cost of ownership by eliminating thousands of man-hours required to monitor video screens. Our solution never goes on vacation, never leaves the room, and... our eyes never blink!

Siveillance SiteIQ builds virtual barriers according to your security policies and automatically detects and alerts you to potential security breaches.

When a security violation occurs, Siveillance SiteIQ automatically tracks and records the object via PTZ cameras while sending alerts to the field guards.



Our eyes never blink

Traditional surveillance systems depend solely on human monitoring of video input, which is expensive and can be unreliable. Our automated wide area surveillance solution understands your environment and offers complete situational awareness. Siveillance SiteIQ transforms cameras that simply collect information for later analysis into proactive sensors, detecting and alerting personnel of potential events before they occur. The system continuously compares video and sensor input against user-defined rules or policies to check for security violations. Policy rules defined in your solution trigger alarms that alert field patrols and enable quick responses to violations. It is no longer necessary to know which camera is detecting or recording an incident – when more information is required, simply select the object in question to display the information you need.

Siveillance SiteIQ key features

- Industry standard components, including Microsoft IIS and SQL Server. Communication and integration are

handled by XML and SOAP, and the solution is built on the Microsoft.NET platform.

- Open and modular architecture with published interfaces supporting the integration of video and other security sensors. DVRs, access/camera control systems and other security solutions can also be integrated.
- The low resource requirements of Siveillance SiteIQ can record and store video for potential incidents as defined by your policies, saving terabytes of storage space over standard DVRs. Also, XML files, rather than video data, are sent for object classification and location analysis, preserving network bandwidth.

Dedicated solutions for the oil & gas industry

In addition to Siveillance SiteIQ, Siemens offers integrated security solutions for the oil and gas industry, including ATEX-approved explosion-proof camera equipment, access control, intrusion detection, and a unique solution based on sensing fiber optic technology offering real-time, early detection of attempted attacks or

breakages on fences and pipelines. All of this alarm and sensing information can be monitored and displayed using the Siveillance SiteIQ solution. In addition, the interaction of our solutions with the SCADA system brings everything together on the same network, securing the total process.

Highlights

- Monitor and control your site from a single screen
- Combines camera and other sensor inputs (access control, fiber fence/pipeline sensors, intrusion, fire alarms etc.)
- Detects, tracks and classifies objects while alerting guards or emergency services
- 24/7 protection with intelligent policy zones and virtual barriers

The information in this document contains general descriptions of technical options available, which do not always have to be present in individual cases. The required features should therefore be specified in each individual case at the time of closing the contract.

© Siemens Switzerland Ltd, 2009